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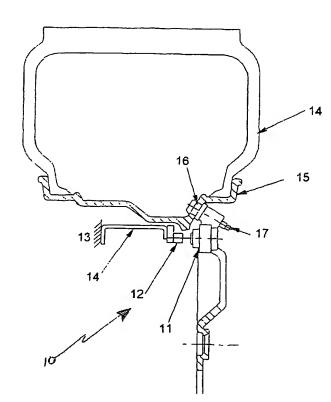
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(54) Title: TIRE PRESSURE MONITORING SYSTEM AND METHOD OF USING SAME



(57) Abstract: A tire pressure monitoring system (10) including a magnetic actuator (11) having an air pressure transducer therein for generating a signal proportional to the interior tire air pressure. The actuator (11) operates parallel to the axle to alleviate speed sensitivity. Magnetic actuator (11) communicates with a stationary field sensor (12) permanently mounted on the vehicle at a close proximity to the magnetic actuator (11). The magnetic actuator (11) rotates about the access with the wheel (15), and for every revolution of the wheel (15), comes in to close proximity to the sensor (12) at least once, and communicates information about the internal tire pressure to the driver.



GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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B. FIELDS SEARCHED			
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.
A	US 6,591,668 B1 (BECHERER et al) 15 July 2003 (15.07.2003), entire patent. 1-17		1-17
A	US 4,131,877 A (STEWART et al) 26 December 1978 (26.12.1978), entire patent.		1-17
A	US 4,570,152 A (MELTON et al) 11 February 1986 (11.02.1986), entire patent.		1-17
A	US 6,230,556 B1 (MALINOWSKI) 15 May 2001 (15.05.2001), entire patent.		1-17
A	US 5,231,391 A (RIGAUX) 27 July 1993 (27.07.1993), entire patent.		1-17
A	US 6,278,363 A (BEZEK et al) 21 August 2001 (21.08.2001), entire patent.		1-17
Further	documents are listed in the continuation of Box C.	See patent family annex.	
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"A" document defining the general state of the art which is not considered to be of particular relevance		and not in conflict with the application but cited to understand the principle or theory underlying the invention	
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"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent fa	mily
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